



H K Das

Solved Exercise Problems
of Mathematical Physics, H K Das
Using Cauchy's Integral Formula.

EXERCISE 7.6

Evaluate the following

- $\int_C \frac{1}{z-a} dz$, where C is a simple closed curve and the point $z = a$ is
 (i) outside C ; (ii) inside C .
 Ans. (i) 0 (ii) $2\pi i$
- $\int_C \frac{z^2}{z-1} dz$, where C is the circle $|z| = 2$.
 Ans. $2\pi i$
- $\int_C \frac{\cos \pi z}{z-1} dz$, where C is the circle $|z| = 3$.
 Ans. $-2\pi i$
- $\int_C \frac{\cos \pi z^2}{(z-1)(z-2)} dz$, where C is the circle $|z| = 3$.
 Ans. $4\pi i$
- $\int_C \frac{z^{n-1}}{(z+2)^2} dz$, where C is the circle $|z| = 3$.
 Ans. $2\pi i$
- (a) $\int_C \frac{z^{n-1}}{(z+1)^2} dz$, where C is the circle $|z-1| = 2$. (A.M.I.E.T.E., Summer 2002) Ans. $\frac{2\pi i}{n}$
 (b) $\int_C \frac{3z^2+2}{z^2-1} dz$, where C is the circle $|z-1| = 1$. (A.M.I.E.T.E., Winter 2001) Ans. $4\pi i$

Hk Dass Multiple Integral Problems With Solution

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